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| L2 | 28 | ("20020016158"\|"20020075971"\|"20020136178"\|"4159518"\|"4313215"\|"5384547"\|"5402500"\|"6014366"\|"6028884"\|"6484017"\|"6621368"\|"6662001"\|"6757324").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 11:39 |
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| L4 | 2 | (dynamic adj range) with reduce$1 with ((multi adj carrier) or multicarrier or multi-carrier) and (IF or (intermediate adj frequency)) and (A/D or (analog adj to adj digital)).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 12:00 |
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| S4 | 1756 | super with heterodyne | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 09:05 |

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| S5 | 0 | super with heterodyne same ((multi adj carrier) or multicarrier or multi-carrier) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 09:05 |
| S6 | 13 | super with heterodyne and ((multi adj carrier) or multicarrier or multi-carrier) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 09:07 |
| S7 | 676 | (dynamic with range) and ((multi adj carrier) or multicarrier or multi-carrier) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 09:08 |
| S8 | 646 | (dynamic adj range) and ((multi adj carrier) or multicarrier or multi-carrier) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 09:08 |
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| S10 | 27 | (dynamic adj range) with ((multi adj carrier) or multicarrier or multi-carrier) and (IF or (intermediate adj frequency)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 09:09 |
| S11 | 10 | (dynamic adj range) with ((multi adj carrier) or multicarrier or multi-carrier) and (IF or (intermediate adj frequency)) and (A/D or (analog adj to adj digital)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 11:34 |
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| S14 | 2 | "5396519".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 09:15 |
| S15 | 19 | ((dynamic adj range) with reduce$1) with ((multi adj carrier) or multicarrier or multi-carrier) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 10:29 |
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| S17 | 2155 | 375/350 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 10:29 |
| S18 | 6891 | ((dynamic adj range) with reduce$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 10:29 |
| S19 | 5666 | 16and S16 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 10:30 |
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| S25 | 9 | S23 and S16 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 10:31 |

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3. Bat Detectors [27K]
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...incorporating a broad-band facility into a tuned super-het bat detector. Amplitude modulation of a **carrier** at the **intermediate frequency**, by a suitable rectangular waveform will produce a comb spectrum with the desired line spacing and...
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...in Chapter 4. Two possible **multi**-standard implementations...discusses issues related to **multi**-standard decimation filter...different channel bandwidths and **carrier** frequencies. This chapter...integration, and potential for **multi**-standard operation. A description...high.[11]. The Wide-Band **Intermediate Frequency** With Double Conversion (WIF...
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...standards with various **carrier** frequencies, channel...operates on a 1.9-GHz **carrier** and has the capability...which results in a **reduced dynamic range** requirement for the...channels away from the **carrier**. (c) Third-order IM...standard with a 190 MHz **intermediate frequency**. The receiver's reference...
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Spread Spectrum Techniques and Applications Proceedings, 1996., IEEE 4th Internatior Symposium on
Volume 1, 22-25 Sept. 1996 Page(s):126 - 130 vol.1
Digital Object Identifier 10.1109/ISSSTA.1996.563755
AbstractPlus | Full Text: PDF(432 KB) **IEEE CNF**

☐ 2. **Multi-carrier spread spectrum modulation with reduced dynamic range**
Aue, V.; Fettweis, G.P.;
Vehicular Technology Conference, 1996. 'Mobile Technology for the Human Race'., IEEI
Volume 2, 28 April-1 May 1996 Page(s):914 - 917 vol.2
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# Carol Barrett Home Page

Low-Power Decimation Filter Design for Multi-Standard Transceiver Applications

Current research on wireless RF transceivers empahsizes both higher integration and the ability to adapt to multiple communication standards. Higher integration can be obtained by using receiver architectures, such as wideband IF with double conversion (WIF), that perform channel select filtering on-chip at baseband. Performing this baseband channel select filtering in the digital domain allows for the programmability necessary to adapt to the different channel banwidths, sampling rates, and CNR requirements of multiple communication standards. At the back end of a wide-dynamic range sigma-delta modulator,a decimation filter can select a desired channel in the presence of both strong adjacent channel interferers and quantization noise from the digitization process.

The focus of this project is to design a power-optimized decimation filter that demonstrates the ability to perform digital channel select filtering for both the GSM (cellular) and DECT (cordless) standards. Automatic gain control is used within the filter to reduce the dynamic range and therefore the power consumption. The filter adapts to the different standards by using a technique in which portions of the circut are powered down in each mode. This adjusts the frequency response and saves additional power consumption.

My advisor is Paul Gray at the University of California at Berkeley.

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## Slides

- C. Barrett "Low-Power Decimation Filter Design for Multi-Standard Transceiver Applications," (PDF), October 1997. NEW!
- C. Barrett "Low-Power Decimation Filter for Multi-Standard Transceiver Applications," (GIF/MIF/PS), March 1997.

## Thesis

- Carol Barrett "Low-Power Decimation Filter Design for Multi-Standard Transceiver Applications," (PDF), December 1997. NEW!

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